

# Bekbolot Khudaiberdiev

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## EDUCATION

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- **Czech Technical University** Prague, Czech Republic  
*Bachelor of Knowledge Engineering; Mean of grades: 2.061 (lower is better)* *Sep. 2021 – Feb. 2023*

## EXPERIENCE

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- **Avast** Prague, Czech Republic  
*Data Engineering Internship* *Nov 2019 - Aug 2020*
  - Implemented and maintained asynchronous ETL's in Java with Spring Webflux and C#.
  - Improved ETL's execution time 10x by optimizing API calls.
  - Implemented and maintained API for OLAP cubes in ASP.NET (learned a little bit of DAX and MDX).
- **Roboauto** Brno, Czech Republic  
*C++ Developer Internship* *Nov 2022 - Feb 2023*
  - Implemented an interface for testing communication protocols in embedded system based on ARM chip.

## PROJECTS

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- **Bachelor's thesis on CLV prediction:**
  - Implemented a CLV predicting widget extension for an open-source project [REMP](#).
  - Did a research on state-of-the-art methods on predicting CLV of a customer in a subscription-based business setting.
  - Trained Probabilistic model, Random forest and NNs on the [KKBox](#) dataset and benchmarked them.
- **[Urban dictionary for kyrgyz language](#) :**
  - Built an "Urban dictionary" for kyrgyz language as a playground to explore Flask
  - Used SQLAlchemy ORM with SQLite for db
  - Explored blueprinting in Flask
- **[Arkanoid game in C++](#) :**
  - Showcased knowledge of OOP principles
  - Used [ncurses](#) library for graphics
  - Used [Doxygen](#) for documentation
- **[PageRank algorithm implementation](#) :**
  - Scraped Wikipedia articles with [scrapy](#)
  - Converted articles to vectors with [gensim](#)
  - Implemented pagerank algorithm on top of above article vectors
- **[A web application for database of users](#) :**
  - Implemented a simple CRUD client-server web application in Java
  - Used [Vaadin](#) framework for a client side
  - Used javax.persistence for ORM
  - Used javax.ws.rs for RESTful functionality

## PROGRAMMING SKILLS

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- **Languages:** C/C++17, Python, Java
- **Technologies:** Spring, WebFlux, Tensorflow, PyTorch, Flask, Scikit-Learn, tsfresh, tslearn, pandas, numpy, boost, Docker, git, SQL, Jira

## CERTIFICATES

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- Neural Networks and Deep Learning from Coursera [QCM53CMG3S5L](#)
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization from Coursera [Y2GWEKDP7S2Y](#)
- Structuring Machine Learning Projects from Coursera [AQBTC2FUBEA4](#)

## BLOG POSTS

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- How to Solve Time-Series Task for ML Internship with tsfresh? [\(Part 1\)](#)
- Measure Attention Span ([Link](#))